

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A ~~sheet of material~~ substrate comprising a plurality of individual fibers having at least one surface, wherein the at least one surface of the plurality of individual fibers have ~~having~~ an admicellar hydrophobic polymer coating thereon ~~on at least one surface thereof, the hydrophobically coated substrate~~ prepared by the process comprising the steps of:

- providing a ~~sheet of material having~~ substrate comprised of a plurality of individual fibers, a first surface and a second surface wherein each of the plurality of individual fibers ~~sheet of material consists of natural and synthetic fibers having at least one surface;~~
- providing an aqueous hydrophobic coating composition containing a surfactant and a monomer of a hydrophobic polymer;
- providing an initiator;
- coating ~~at least one of the first and second~~ the at least one surface of the sheet of material plurality of individual fibers with the aqueous hydrophobic coating composition;

- introducing the initiator into the hydrophobic coating composition disposed on ~~at least one of the first and second~~ the at least one surface surfaces of the ~~sheet of material~~ plurality of individual fibers; and
- initiating an admicellar polymerization reaction on ~~at least one of the first and second~~ the at least one surface surfaces of the ~~sheet of material~~ plurality of individual fibers coated with the aqueous hydrophobic coating composition for a predetermined period of time such that a hydrophobic polymer coating forms on ~~at least one of the first and second~~ the at least one surface surfaces of the ~~sheet of material, wherein the sheet of material:~~ plurality of individual fibers, wherein the substrate having the admicellar hydrophobic polymer coating thereon has an air permeability ratio of at least 95% of the air permeability of an uncoated substrate.

2. (Currently Amended) The ~~sheet of material~~ substrate of claim 1, wherein the ~~sheet of material~~ substrate is selected from the group consisting of cloth, burlap, polyesters, paper, cardboard and combinations thereof.

3. (Currently Amended) The ~~sheet of material~~ substrate of claim 1, wherein the surfactant is selected from the group consisting of sodium dodecyl sulfate, linear alkyl benzene sulfonate, and combinations thereof.
4. (Currently Amended) The ~~sheet of material~~ substrate of claim 1, wherein the monomer of a hydrophobic polymer is styrene.
5. (Currently Amended) The ~~sheet of material~~ substrate of claim 1, wherein the initiator is sodium persulfate.
6. (Currently Amended) The ~~sheet of material~~ substrate of claim 1, wherein the initiator is AIBN.
7. (Currently Amended) The ~~sheet of material~~ substrate of claim 1, wherein the ~~sheet of material~~ substrate having the hydrophobic coating composition disposed on ~~at least one of the first and second~~ the at least one surface of the plurality of individual fibers and the initiator introduced thereon is heated to a temperature of from about 60 degrees Celsius to about 100 degrees Celsius for a predetermined time of from about 30 minutes to about 180 minutes.

8. (Currently Amended) The ~~sheet of material~~ substrate of claim 7, wherein the ~~sheet of material~~ substrate having the hydrophobic coating composition disposed on ~~at least one of the first and second~~ the at least one surface and the initiator introduced thereon is heated to a temperature of 80 degrees Celsius for a predetermined time of 60 minutes.